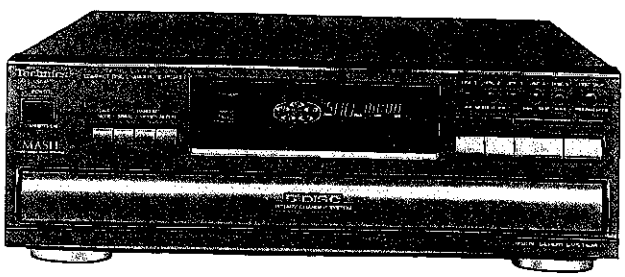
Technics

Compact Disc Changer

SL-PD348

Operating Instructions



COMPACT disc DIGITAL AUDIO

Before connecting, operating or adjusting this product, please read these instructions completely.

GN

RQT2421-L

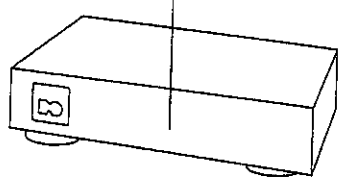
Dear Customer

Thank you for purchasing this product.
For optimum performance and safety, please read these operating instructions carefully.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

DANGER-Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.
(Inside of product)

CLASS 1
LASER PRODUCT



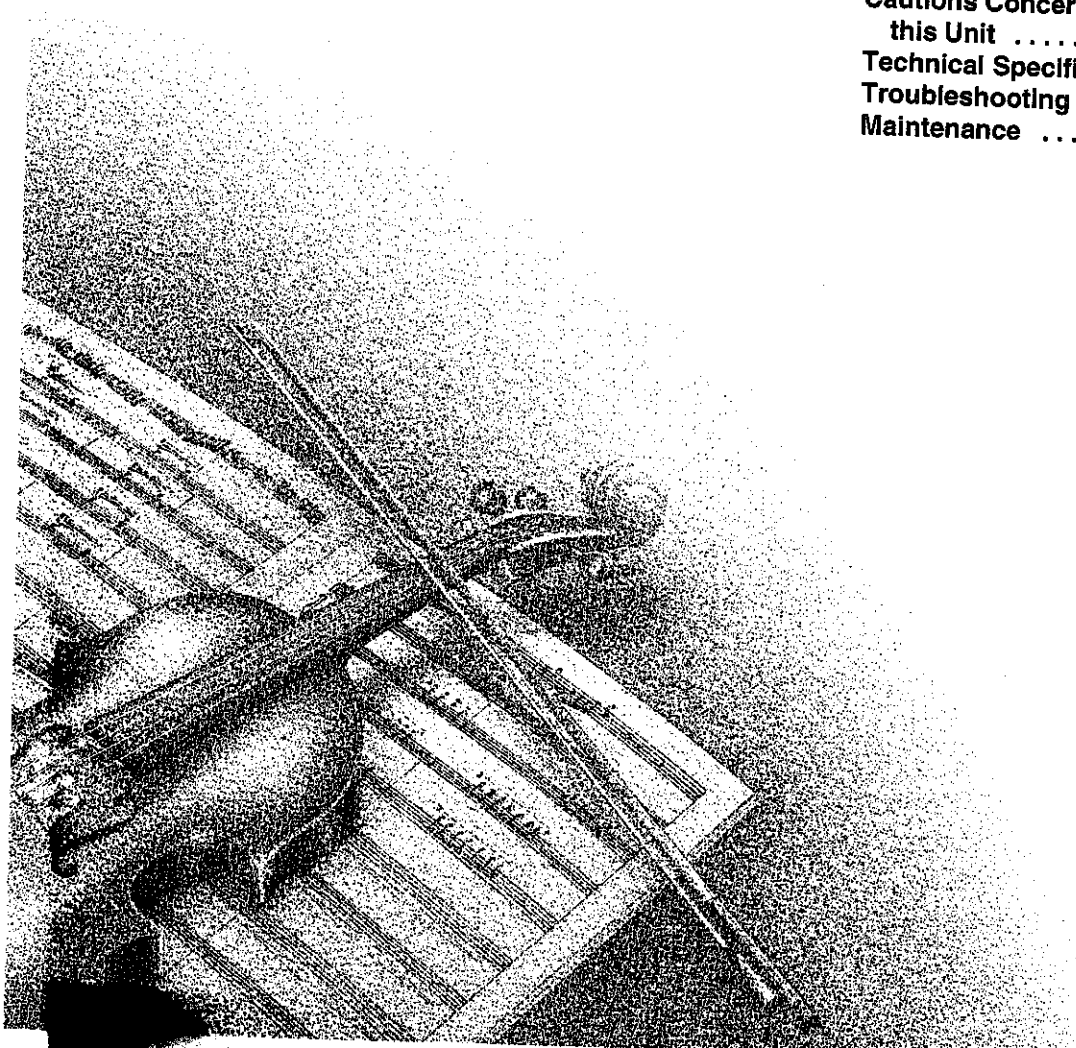


Table of Contents

Before use

Precautions 3
Location of Controls 4
Connections 5

Operations

Basic Operations 6
Sequential play 6
To exchange discs during play 7
Skip Function 8
To skip discs 8
To skip tracks 8
Search Function 8
Random Play 9
One disc random play 9
Full random play 9
Program Play 10
Delete Play 11
Spiral Play 12
Repeat Function 12
Time Mode Selection 13

General Information

Concerning Compact Discs 13
Cautions Concerning the Moving of this Unit 14
Technical Specifications 14
Troubleshooting Guide 15
Maintenance 15

Precautions

Placement

Avoid placing the unit in areas of:
- direct sunlight
- high temperature
- high humidity
- excessive vibration
- uneven surfaces (Place the unit on a flat level surface.)

Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

Ventilation

Place the unit in a well ventilated position at least 10 cms away from wall surfaces etc.

Stacking

Never place heavy items on top of the unit or the power cord.

Voltage

- It is very dangerous to use an AC power source of high voltage such as for an air conditioner.
  A fire might be caused by such a connection.
- A DC power source can not be used.
  Be sure to check the power source carefully, especially on a ship or other place where DC is used.

Power cord protection

- Avoid cuts, scratches or poor connection of the AC mains cord, as this may result in fire or electric shock hazard.
  Excessive bending, pulling or slicing of the cord should also be avoided.
- Do not pull on the cord when you are disconnecting the power, as this could cause an electric shock. Grasp the plug firmly when you disconnect the power supply.
- Never touch the plug with wet hands or a serious electric shock could result.

Foreign materials

- Ensure that no foreign objects, such as needles, coins, screwdrivers etc, accidentally fall into the unit.
  Otherwise, a serious electric shock or malfunction could occur.
- Be extremely careful about spilling water or liquid on/into the unit, as a fire or electric shock could occur.
  (Disconnect the power plug and contact your dealer immediately if this occurs.)
- Avoid spraying insecticides onto the unit as they contain flammable gases which can be ignited.
- Insecticides, alcohol, paint thinner and similar chemicals should never be used to clean the unit as they can cause flaking or cloudiness to the cabinet finish.

Maintenance

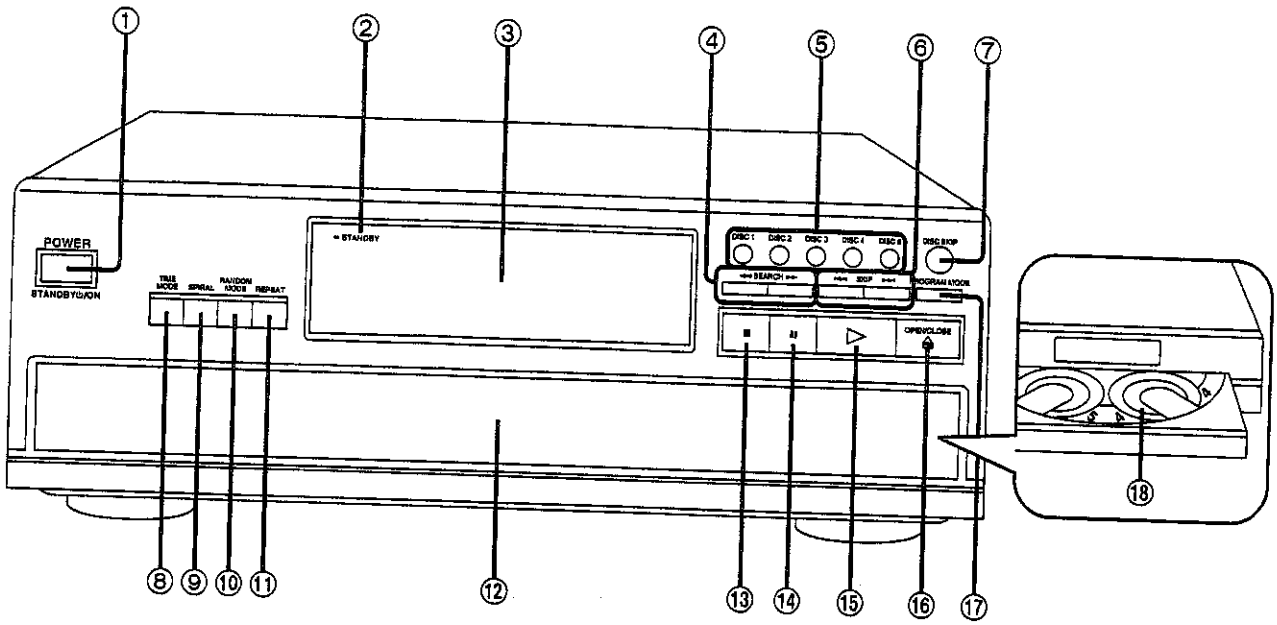
Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.

Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Service

- Never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem.
  A serious electric shock could result if you ignore this precautionary measure.
- If a problem occurs during operation (the sound is interrupted, indicators fail to illuminate, smoke is detected, etc.) contact your dealer or Authorized Service Center immediately.
- Disconnect the power supply if the unit will not be used for a long time. Otherwise the operation life could be shortened.

Location of Controls

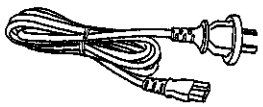
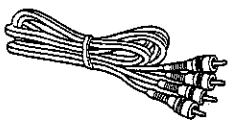
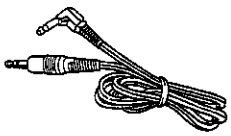


No.	Name	Ref. page
①	**Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	*6*
②	**Standby indicator (STANDBY)** When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.	
③	**Display**	—
④	**Search buttons (◀◀ SEARCH ▶▶)**	*9*
⑤	**Disc buttons (DISC 1–5)**	*6*
⑥	**Skip buttons (⏮ SKIP ⏭)**	*8*
⑦	**Disc skip button (DISC SKIP)**	*6, 8*
⑧	**Time mode button (TIME MODE)**	*13*
⑨	**Spiral button (SPIRAL)**	*12*
⑩	**Random mode button (RANDOM MODE)**	*9*
⑪	**Repeat button (REPEAT)**	*12*
⑫	**Loading drawer**	*6*
⑬	**Stop button (■)**	*7*
⑭	**Pause button (❚❚)**	*7*
⑮	**Play button (▷)**	*7*
⑯	**Loading drawer open/close button (⏏ OPEN/CLOSE)**	*6*
⑰	**Program mode button (PROGRAM MODE)**	*10, 11*
⑱	**Disc trays (1–5)**	*6*

Connections

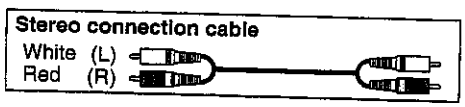
Please check and identify the supplied accessories.

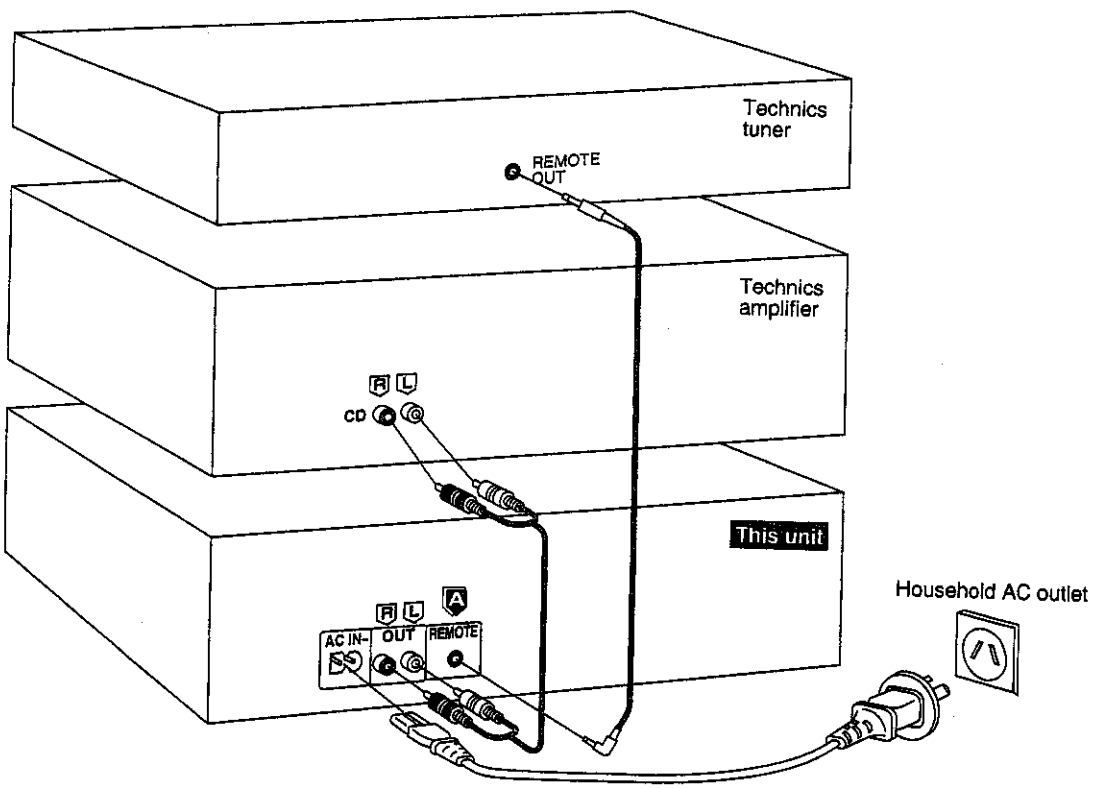
☐ AC power supply cord . . . . . 1 pc. ☐ Stereo connection cable . . . . . 1 pc. ☐ Remote control cable . . . . . 1 pc.

Before connecting the changer to your audio system, make sure that the power of the changer and all other system components are turned off.

•Although the figure below shows the AC power supply cord being connected to a household AC outlet, if the amplifier (or cassette deck) of Technics Midi-system is equipped with an AC outlet, connect the cord to that outlet.





A To operate with the remote control, connect the remote control cable (included) to the REMOTE OUT terminal of Technics tuner.

The operations such as play, stop, skip etc. can be operated by remote control included with Technics Midi-system. For details, refer to the operating instructions of the system to be used.

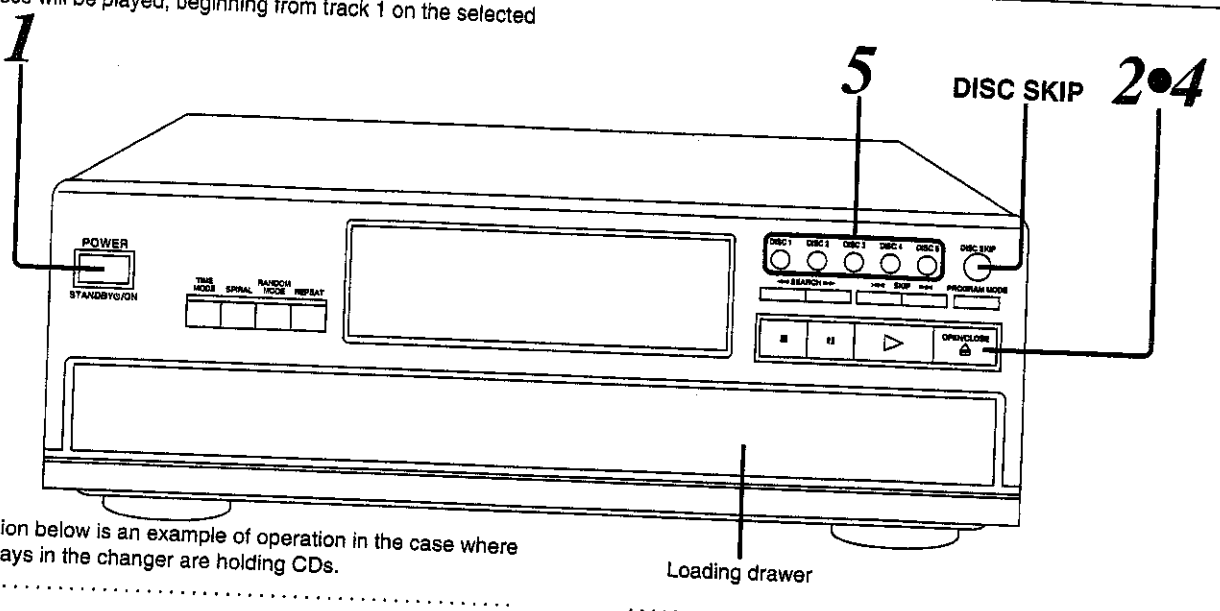
Be careful of the following points when using this unit in combination with a Technics tuner (ST-X902LA, ST-X302LA).

- **Presetting the volume when the timer is set (Refer to the operating instructions of Technics Midi-system for details.)**
  The volume cannot be preset, so set the volume level first then switch the power to STANDBY.
- **Switching over to another program source while a program is being played on this unit.**
  This unit will not stop, so stop play before switching over to another program source.

Basic Operations

Sequential play

All of the discs will be played, beginning from track 1 on the selected disc.



The explanation below is an example of operation in the case where all five disc trays in the changer are holding CDs.

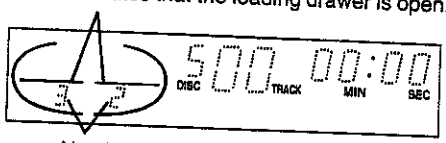
1 POWER

Press POWER.
The unit will switch on.

2 OPEN/CLOSE

Press ⏏ OPEN/CLOSE to open the loading drawer.

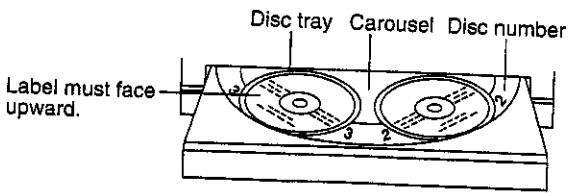
Indicates that the loading drawer is open.



Numbers of the trays in which discs are loaded.

3

Load the disc(s) on the disc tray(s).
The discs can be loaded two at a time by pressing DISC SKIP to rotate the carousel.

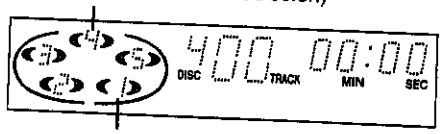


Do not load 3" (8 cm) and 5" (12 cm) discs on the same disc tray.

4 OPEN/CLOSE

Press ⏏ OPEN/CLOSE again to close the loading drawer.
Do not attempt to close the drawer by hand.

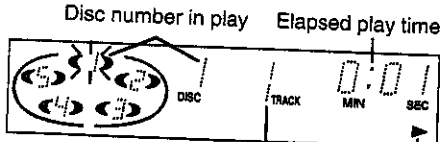
Current play position (The numeral illuminates with a red color.)



Illuminates when a disc is in the disc tray. If there is no disc in the disc tray, the indication disappears when the disc tray comes to the play position.

5 DISC 1 DISC 2 DISC 3 DISC 4 DISC 5

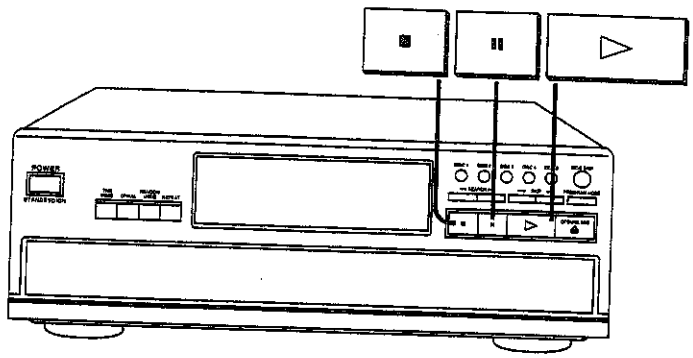
Press the desired disc button (1–5).
Play will begin from the selected disc. If a disc is not on the selected disc tray, the changer plays the disc at the next number.



The changer plays all the tracks on all the discs in order and stops automatically when the last track on the last disc finishes playing. The first disc will then be at the playing position.

CAUTION

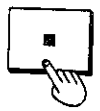
Do not touch the loading drawer and carousel while they are in motion, and do not attempt to rotate the carousel by hand; doing so could result in incorrect operation of the unit and/or damage to the discs.



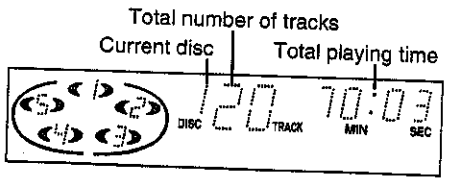
To temporarily stop play

Press ❚❚.
Press ▷ to resume play.

To stop play



Press ■.
The display will show the total number of tracks and the total playing time of the current disc.

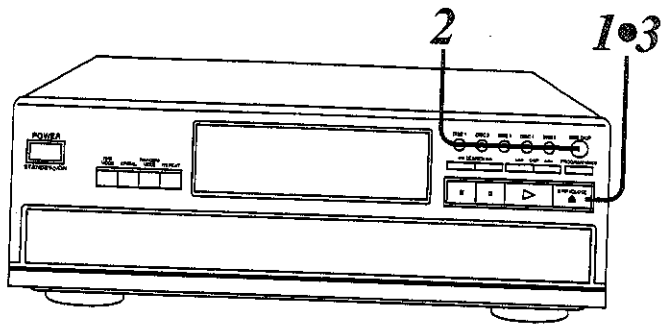


Note

The total playing time displayed includes the silent sections between tracks. For this reason, it may be a few seconds longer than the playing time indicated on the disc.

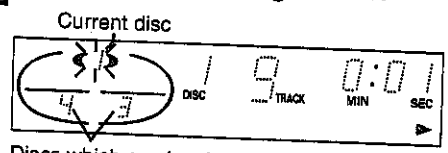
To exchange discs during play

While playing a disc, it is possible to change the other discs without interrupting play.



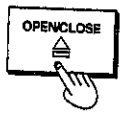
1

Press ⏏ OPEN/CLOSE to open the loading drawer.



2

Press DISC SKIP to rotate the disc trays and exchange the discs.
The carousel will move by one disc tray. Pressing again moves the carousel in the opposite direction by two disc trays.

3 

Press ⏏ OPEN/CLOSE to close the loading drawer.

Note

If you play a disc with the loading drawer open, discs other than the current disc cannot be played.

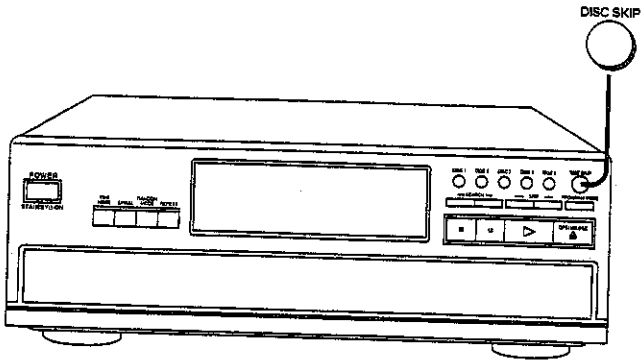
CAUTION

Do not move this changer with a compact disc inside the unit.
If a disc comes off the disc tray, it might be scratched or the changer might become incapable of playing.
(Refer to "Cautions Concerning the Moving of this Unit" on page 14.)

Skip Function

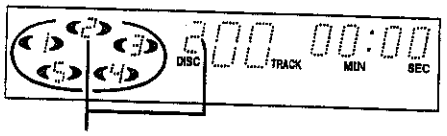
To skip discs

Use this function to skip discs when selecting a disc to which you wish to listen, and when loading and unloading the discs.



You can use this function in stop, sequential play, one disc random play and delete play modes.

Press DISC SKIP to rotate the disc tray.



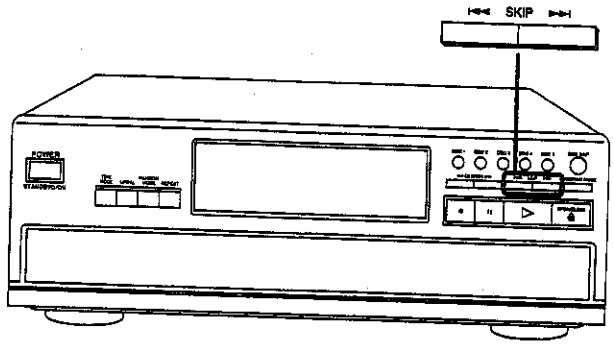
Disc number at the playing position

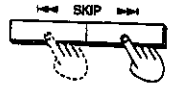
In stop mode:
When the loading drawer is closed, pressing DISC SKIP changes the disc tray to the next one.
When the loading drawer is open, pressing DISC SKIP moves the carousel by two disc trays.

In play mode:
When the loading drawer is closed, pressing DISC SKIP changes the disc and the changer plays the track on the next disc.
If a disc is not on the selected disc tray, the changer plays the disc at the next number.
When the loading drawer is open, pressing DISC SKIP moves the carousel by one disc tray. Pressing again moves the carousel in the opposite direction so that you can change all discs except the one being played.

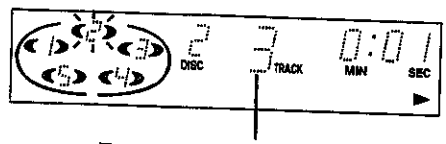
To skip tracks

Use this function to skip tracks when selecting a track to which you wish to listen.





Press either SKIP (⏮ or ⏭) until you reach the desired track.
⏮: You can skip backward.
⏭: You can skip forward.



Track number at the playing position

In sequential/program/delete play mode:
In sequential play mode, you can skip only within the current disc.
In program play mode, you can skip from one track to another in the programmed sequence.
In delete play mode, you can skip tracks only within the current disc excluding the tracks to be deleted.
⏮: You can skip to the beginning of the track being played. If you press this button again quickly, you can skip to the beginning of the previous track.
Remember that in a backward skip, the current track is included in the count.
⏭: You can skip as many tracks as the number of times you press the button.

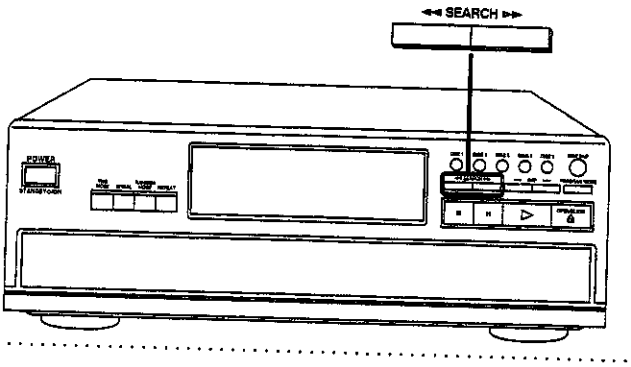
In random play mode:
⏮: You can skip to the beginning of the current track.
⏭: You can skip to the beginning of a next track in random order.

In spiral play mode:
⏮: You can skip to the beginning of the current track.
⏭: You can skip to the beginning of the track on the next disc.

You can also skip tracks when the changer is in the stop mode (except during random play and spiral play) or pause mode.

Search Function

You can search rapidly forward or backward on the disc for specific sections.



[In the play or pause mode]

Press and hold ◄◄ or ►►.

◄◄: You can search backward.
►►: You can search forward.

Release the button when you reach the desired point.
The changer will return to the previous mode (play or pause).

In sequential play mode:
You can search forward over discs and backward within the current disc.

In other play modes:
You can search forward or backward only within the current track.

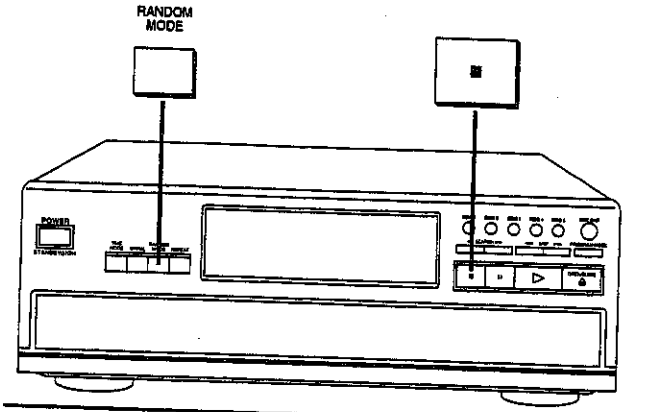
For your reference:

The search function will begin slowly, and then, if the button is held pressed for longer than 3 seconds, it will change to high-speed search.

In the play mode, the sound level decreases by 12 dB (¼).

Random Play

All of the tracks will be played one time each in random order. There are two types of random play as described below.



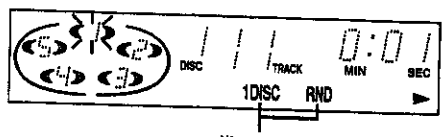
One disc random play

The changer will play all tracks on the current disc in a random order. Then it will choose a new disc randomly, excluding the discs already played, and play all tracks on that disc in a random order.

[In the stop or play mode]

Press RANDOM MODE so that the "1 DISC RND" indicator illuminates.

Each time the button is pressed, the display will change in the following order:
1 DISC RND → FULL RND → (off).



Illuminates

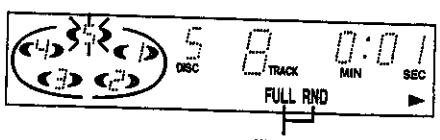
Full random play

Each track to be played back is selected randomly from all of the tracks on all of the discs, excluding the tracks that have already been played.

[In the stop or play mode]

Press RANDOM MODE so that the "FULL RND" indicator illuminates.

Each time the button is pressed, the display will change in the following order:
1 DISC RND → FULL RND → (off).



Illuminates

The changer will stop automatically when all the tracks on all discs have been played once.

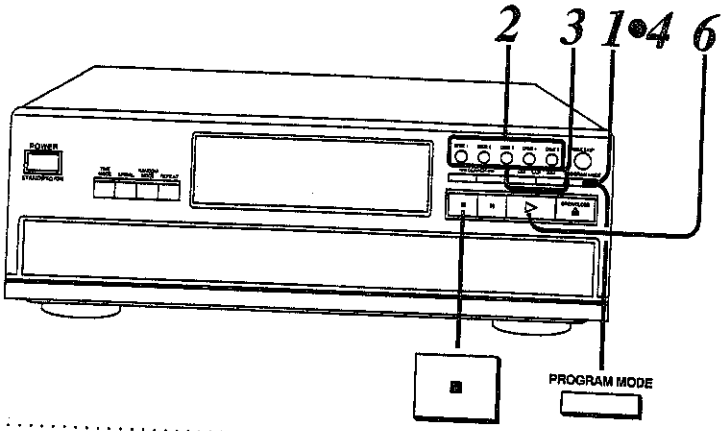
To cancel random play mode

Press ■.

The "1 DISC (or FULL) RND" indicator will go out.

Program Play

You can program up to 32 selections from the five discs in any order as you desire.

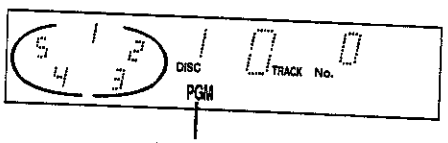


1

[In the stop mode]

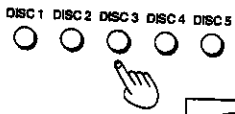
Press PROGRAM MODE so that the "PGM" indicator illuminates.

Each time the button is pressed, the display will change in the following order:
PGM → DEL → (off).



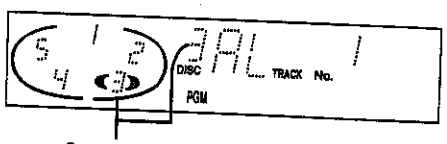
Illuminates

2



Press the desired disc button (1–5).

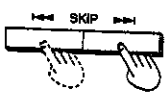
For example:
To select disc 3, press DISC 3.



Specified disc number

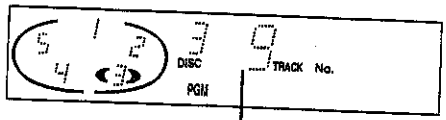
The "AL" indication shows that all the tracks on the disc are selected.
To program by means of disc numbers only, repeat the above operation. (The count will increase by one for each operation.)

3



Press ⏮ SKIP ⏭ to select the track number.

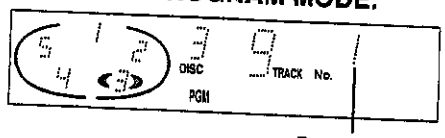
For example:
To select track number 9, press ⏭ 9 times.



Specified track number

4

Press PROGRAM MODE.

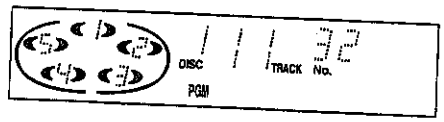


Program order

5

Repeat steps 2, 3 and 4 until you have completed the desired entry.

If you enter non-existing disc(s) or track(s) soon after the loading drawer is closed or when it is open, the corresponding indicator illuminates and the entry is included in the count. In the play mode, the changer will cancel the non-existing entry.

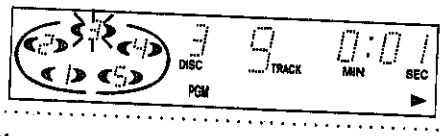


If you attempt a 33rd selection, the "-F" (full) indication will be displayed.

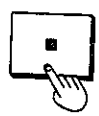
6

Press ▷ to start play.

To enter additional selections during play, repeat steps 2, 3 and 4.



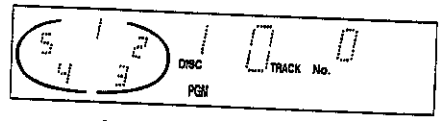
To clear the entire programmed contents



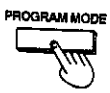
[In the stop mode]

Press ■.

The display will indicate as below.



To cancel program mode



[In the stop mode]

Press PROGRAM MODE twice.

The changer will return to sequential play mode.

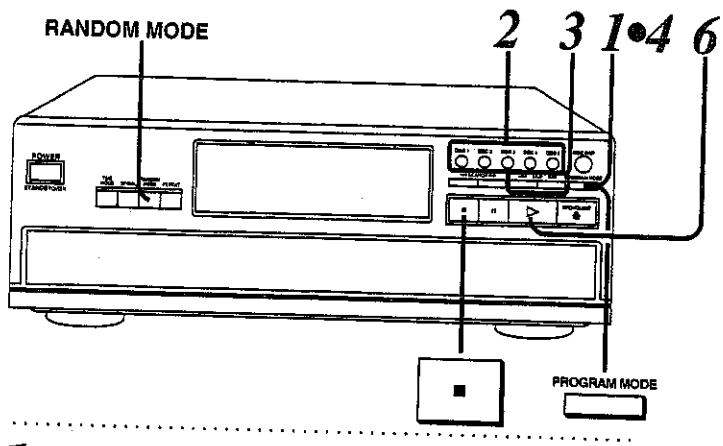
The programmed contents will remain stored in the memory until they are cleared, even after the program mode is canceled.
Therefore, after using program play, it is possible to cancel the program mode and use another play mode (except delete play) and then still use the same program play again at a later time.
In addition, if the disc is replaced with another one, program play will be carried out using the new disc. If non-existing entries occur at this time, they will be canceled.

For your reference:

The program mode and the programmed contents will remain stored in the memory even after the unit is switched off.
However, if the power cord is unplugged or the power supply is otherwise interrupted for an extended length of time, the contents of the memory will be erased.

Delete Play

You can select up to 32 selections that you do not want to hear and put them in the changer's memory. Then you can enjoy sequential, one disc random, or full random play of only your favorite tracks.

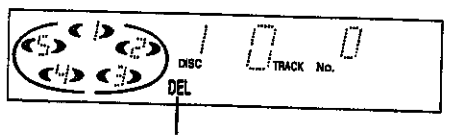


1

[In the stop mode]

Press PROGRAM MODE twice so that the "DEL" indicator illuminates.

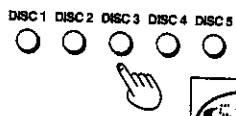
Each time the button is pressed, the display will change in the following order:
PGM→DEL→(off).



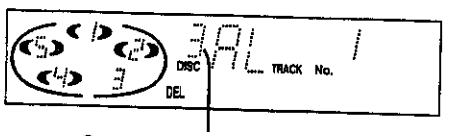
Illuminates

2

Press the disc button (1–5).



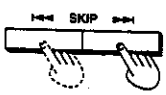
For example:
To delete disc 3, press DISC 3.



Specified disc number

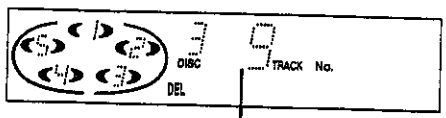
The "AL" indication shows that all the tracks on the disc are selected.
To delete by means of disc numbers only, repeat the above operation. (The count will increase by one for each operation.)

3



Press ⏮ SKIP ⏭ to select the track number.

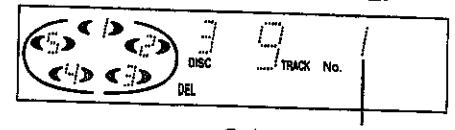
For example:
To delete track number 9, press ⏭ 9 times.



Specified track number

4

Press PROGRAM MODE.

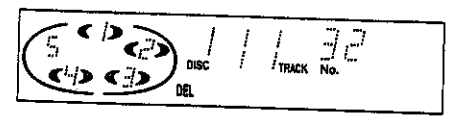


Order you have entered

5

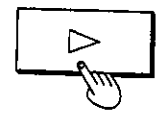
Repeat steps 2, 3 and 4 until you have completed the desired entry.

If you enter non-existing disc(s) or track(s) soon after the loading drawer is closed or when it is open, the corresponding indicator illuminates and the entry is included in the count. In the play mode, the changer will cancel the non-existing entry.



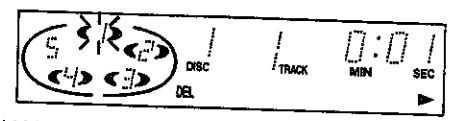
If you attempt a 33rd selection, the "-F" (full) indication will be displayed.

6



Press ▷ to start play.

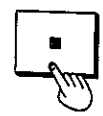
To enter additional selections to be deleted during play, repeat steps 2, 3 and 4.



For random play while deleting unwanted tracks

[Proceed through step 5 above, and then:]
To activate one disc random play, press RANDOM MODE.
To activate full random play, press RANDOM MODE twice.

To clear the entire contents to be deleted



[In the stop mode]

Press ■.

The display will indicate as below.

To cancel delete mode

[In the stop mode]

Press PROGRAM MODE.

The changer will return to sequential play mode.

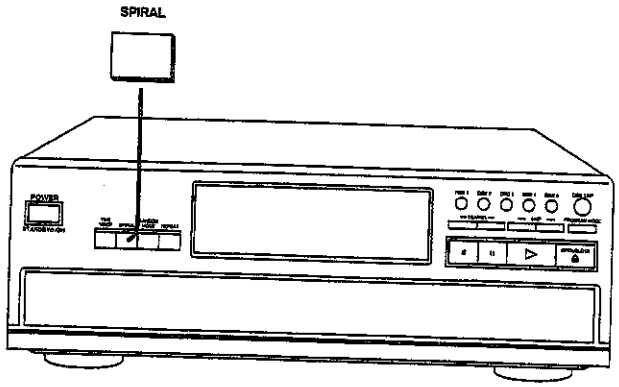
The contents to be deleted will remain stored in the memory until they are cleared, even after the delete mode is canceled.
Therefore, after using delete play, it is possible to cancel the delete mode and use another play mode (except program play) and then still use the same delete play again at a later time.
In addition, if the disc is replaced with another one, delete play will be carried out using the new disc. If non-existing entries occur at this time, they will be canceled.

For your reference:

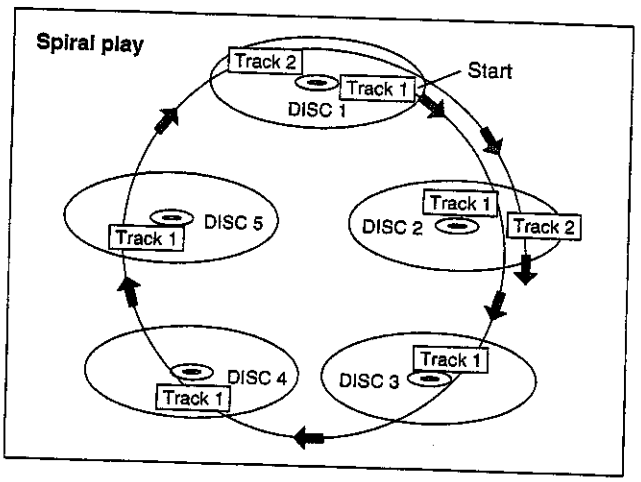
The delete mode and the contents to be deleted will remain stored in the memory even after the unit is switched off.
However, if the power cord is unplugged or the power supply is otherwise interrupted for an extended length of time, the contents of the memory will be erased.

Spiral Play

The changer plays the first tracks on all the loaded discs in sequence, followed by the second tracks on all the discs, and so on. (Refer to the illustration below.)



Example:
When starting from disc 1

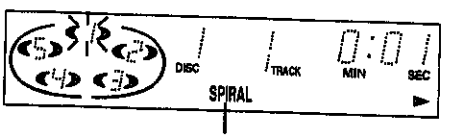


SPIRAL

[In the stop or play mode]

Press SPIRAL.

Spiral play will begin with the first track on the disc situated at the playing position.



Illuminates

The changer will stop automatically when all the tracks on all discs have been played once.

To cancel spiral play mode

SPIRAL

Press SPIRAL again.

The "SPIRAL" indicator will go out.

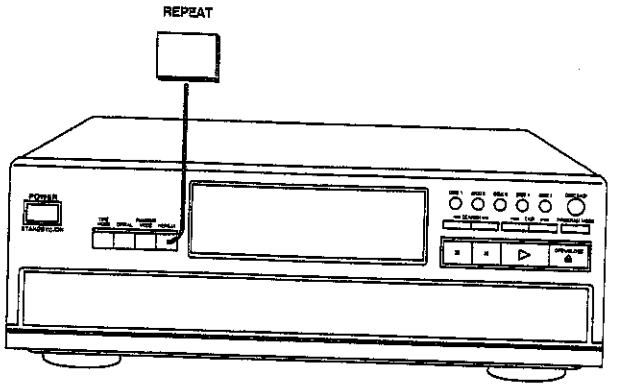
The changer will return to sequential play mode from the current track on the current disc which is playing.

For your reference:

When a disc with fewer tracks finishes playing, that disc will be skipped and the changer will continue playing the remaining track on the other discs in spiral sequence.

Repeat Function

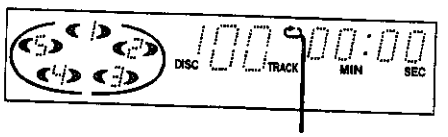
Play will continue endlessly in accordance with the specific play mode selected.



REPEAT

[Before or during play]

Press REPEAT.



Illuminates

In sequential play mode:
All tracks of all discs will be played repeatedly.

In program play mode:
The changer plays only the programmed selections in the programmed sequence repeatedly.

In delete play mode:
The changer plays the discs and tracks excluding the selections to be deleted repeatedly.

In random play mode:
When the changer has played all the tracks on all the loaded discs, it will select a new random sequence and play continuously. The sequence differs each time.

In spiral play mode:
The changer plays all tracks of all discs repeatedly in the sequence of spiral play.

To cancel repeat mode

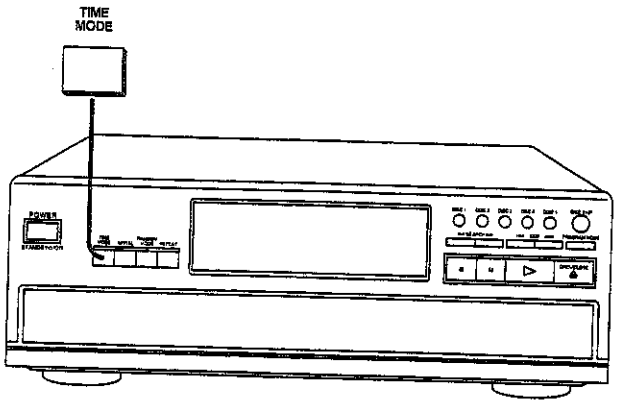
REPEAT

Press REPEAT again.

The " ↻ " indicator will go out.

Time Mode Selection

The various time information of the current disc can be displayed.



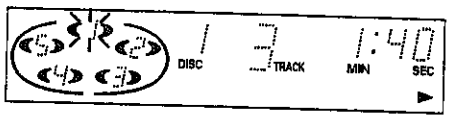
[In the play or pause mode]

Press TIME MODE.

The information will change (as described below) each time you press the button.

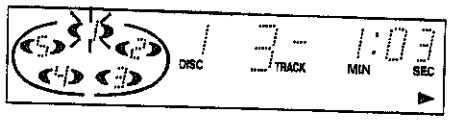
(Original state)

① Track number and elapsed play time of the current track

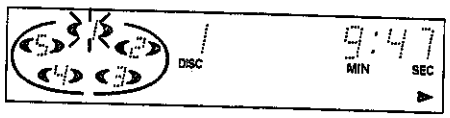


② Total remaining time on the disc

③ Track number and remaining time of the current track



④ Total elapsed play time on the disc



In all play modes:
When track number 21 or greater is playing, display ③ shows "--:--".

In program/delete/random/spiral mode:
The displayed information will alternate between displays ① and ③ each time the button is pressed.

When you stop playing and then start play again, the display will return to display ①.

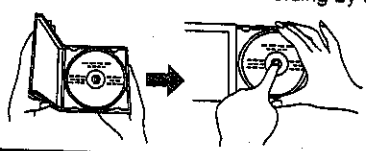
Concerning Compact Discs

Only compact discs having this mark can be used with this unit.

COMPACT disc DIGITAL AUDIO

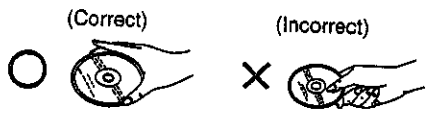
To remove a disc from its case

Press the center holder and lift the disc holding by the edges.



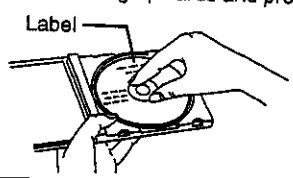
To hold the disc

Hold the disc by the edges so the surface is not soiled with fingerprints.
Fingerprints, dirt and scratches can cause skipping and distortion.



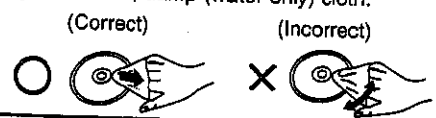
To store a disc in its case

Insert the disc with label facing upwards and press downward at the center.



If the surface is soiled

Wipe gently with a soft, damp (water only) cloth.



If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe off with a soft, dry, lint-free cloth before using the disc.

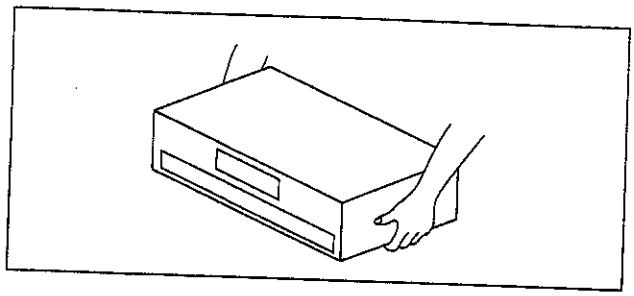
Improper disc storage:

You can damage discs if you store them in the following places;
- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Handling precautions:

- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not soil with fingerprints.

Cautions Concerning the Moving of this Unit



CAUTION

Before moving the changer to another location, be sure to carry out the "Preparations for moving the unit" described below.

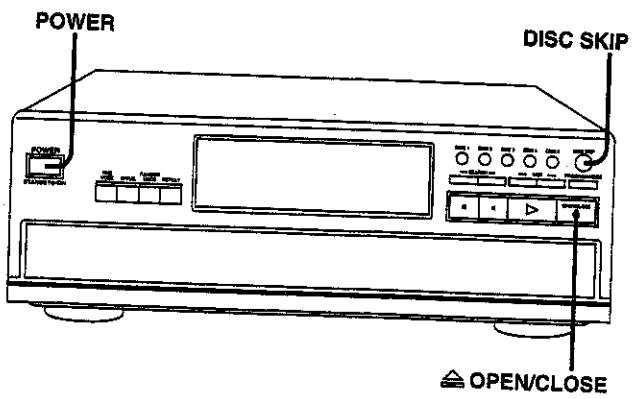
Failure to do so will expose the compact discs and the changer to the risk of severe damage.

Preparations for moving the unit

All of the discs must be removed so that the trays are completely empty.
Use the following procedure.

① Press POWER to switch off the unit.
② Press POWER to switch on the unit.
(If there is a disc in the play section, it will be returned to the disc tray at this time.)
③ Press ⏏ OPEN/CLOSE to open the loading drawer.
④ Press DISC SKIP to rotate the disc trays and remove the discs from all disc trays.
⑤ Press ⏏ OPEN/CLOSE to close the loading drawer.
⑥ Press POWER to switch off the unit.

If you have pressed a wrong button by mistake, return to step ①.



Technical Specifications

■ AUDIO

No. of channels	2 (left and right, stereo)
Frequency response	2–20,000 Hz, ±1 dB
Output voltage	2 V (at 0 dB)
Dynamic range	92 dB
S/N	100 dB
Total harmonic distortion	0.007% (1 kHz, 0 dB)
Wow and flutter	Below measurable limit
DA converter	MASH (1 bit)
Output impedance	Approx. 1 kΩ
Load impedance	More than 10 kΩ

■ PICKUP

Wavelength	780 nm

■ GENERAL

Power consumption	12 W
Power supply	AC 50/60 Hz, 230–240 V
Dimensions (W×H×D)	360×125×370 mm
Weight	4.1 kg

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

MASH is a trademark of NTT.

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
Changer will not play.	A disc(s) or other foreign object(s) has fallen inside the changer.	•Open the loading drawer, and then remove the object.
	Moisture has collected in the changer.	•Switch on and allow the changer to dry out for about one hour before using it.
The disc in the changer does not play.	The disc is upside down.	•Make sure the label is facing upward.
	The disc is dirty.	•Wipe the disc with a soft cloth.
	The disc is scratched.	•Replace the disc with a new one.
	The disc is warped.	
	The disc is not within specified standards.	
Play stops before changing to the next disc.	The loading drawer is open.	•Press the ⏏ OPEN/CLOSE button to close the loading drawer.
A certain music passage can't be played correctly.	The disc is dirty.	•Wipe the disc with a soft cloth.
	The disc is scratched.	•Replace the disc with a new one.
There is noise from the tuner or disturbance on the TV screen.	Caused by high-frequency signals from this changer.	•Use the changer further away from the tuner or TV. •If the tuner or TV's antenna is the indoor type, use an outdoor one.
When program play is started, an error message (–E) appears on the display.	Play was started without a track being programmed.	•Program a track.
An error message (–E) appears on the display, and the changer stops operating.	The mechanism of the changer has been improperly adjusted.	•Turn the unit off and then back on again. However, if the loading drawer is fully open, take out the compact disc(s) at the front position and then turn the unit off and then back on again.
The loading drawer stops in the middle of opening.		

Note

When using the tuner with this changer;
If noise is excessive in the FM mode, turn off the power supply of this changer.

Maintenance

Wipe this unit with a soft cloth.
If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.
- Do not use alcohol, thinners, etc.
- When using chemically treated cloths, refer to the explanations provided with them.

About moisture

Moisture may form on the lens in the following cases...
- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not work properly. In this case, turn the unit on and wait about one hour for the moisture to evaporate.

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